

In the Claims

Please amend Claims 1, 3, 6-10, 12, 15 and 17, as shown in the following listing:

- 1 1. (Currently Amended) An electrical motor which comprises:
2 a current input lead;
3 a first conductive coil;
4 a first magnet; and
5 a commutator for alternately energizing said first coil according to a relative position between
6 said first coil and said magnet, wherein said commutator comprises ~~said first photoresistor~~ a first
7 optical switching element wired in series between said lead and said first coil.

- 1 2. (Original) The motor of Claim 1 which further comprises a movable armature for allowing a
2 change in relative position between said first coil and said magnet.

- 1 3. (Currently Amended) The motor of Claim 2, wherein said device further comprises a light shutter
2 for alternately exposing said first ~~photoresistor~~ optical switching element to a light source in
3 association with a position of said armature.

- 1 4. (Original) The motor of Claim 3, wherein said light source is an ambient light source.

- 1 5. (Original) The motor of Claim 1, wherein said magnet is a permanent magnet.

1 6. (Currently Amended) The motor of Claim 1, which further comprises:
2 a second conductive coil; and,
3 said ~~comutator~~ commutator further comprises a second ~~photoresistor~~ optical switching
4 element wired in series between said lead and said second coil.

1 7. (Currently Amended) The motor of Claim 6, which further comprises:
2 a third conductive coil; and,
3 said ~~comutator~~ commutator further comprises a third ~~photoresistor~~ optical switching element
4 wired in series between said lead and said third coil.

1 8. (Currently Amended) The motor of Claim 1, wherein said first ~~photoresistor~~ optical switching
2 element is further wired through a voltage divider.

1 9. (Currently Amended) The motor of Claim 3, which further comprises a first shunting
2 photoresistor wired to said first coil to reduce the current in said first coil while said first
3 ~~photoresistor~~ optical switching element is shaded by said shutter, and said first shunting
4 photoresistor is illuminated by said shutter.

1 10. (Currently Amended) A motorized device which comprises:
2 a current source; and,
3 an electrical motor for driving said device, wherein said motor comprises:
4 a first conductive coil;

5 a first magnet; and
6 a commutator for alternately energizing said first coil, wherein said commutator
7 comprises said first ~~photoresistor~~ optical switching element being wired in series between said
8 current source and said first coil.

1 11. (Original) The device of Claim 10, which further comprises a movable armature for allowing
2 a change in relative position between said first coil and said first magnet.

1 12. (Currently Amended) The device of Claim 11, which further comprises a light shutter for
2 alternately exposing said first ~~photoresistor~~ optical switching element to a light source depending
3 on the position of said armature.

1 13. (Original) The device of Claim 12, wherein said current source comprises a photovoltaic cell.

1 14. (Original) The device of Claim 13, wherein said light source powers said cell.

1 15. (Currently Amended) A commutator for an electric motor having a current lead, at least one
2 conductive coil and at least one magnet, said commutator comprises:

3 a ~~photoresistor~~ optical switching element wired in series between said lead and said coil; and,
4 means for alternately exposing and shading said ~~photoresistor~~ optical switching element to
5 a light source at specified relative positions between said coil and said magnet, thereby controlling
6 the current through said coil.

1 16. (Original) The commutator of Claim 15, wherein said means for alternately exposing and
2 shading comprise a shutter assembly.

1 17. (Currently Amended) An electric motor which comprises:

2 a current input lead;

3 a first coil;

4 a first ~~photoresistor~~ optical switching element connected in series between said coil and
5 said lead; and

6 a shutter formed between said first ~~photoresistor~~ optical switching element and a light source,

7 whereby said first coil is energized when said shutter is open.